

a_k	b_k	peak-bit $a_k b_k$	lower branch	upper branch
0	0	0	$[0 \ 0 \ \dots \ 0]$	$[0 \ 0 \ \dots \ 0]$
0	1	0	$[0 \ 0 \ \dots \ 0]$	$[a_{k-1} \ \dots \ a_1 \ a_0]$
1	0	0	$[b_{k-1} \ \dots \ b_1 \ b_0]$	$[0 \ 0 \ \dots \ 0]$
1	1	1	$[b_{k-1} \ \dots \ b_1 \ b_0]$	$[a_{k-1} \ \dots \ a_1 \ a_0]$

Figure 4

0 1 1 1 0 0 1	sequence $[a_{N-2} \ \dots \ a_1 \ a_0]$
1 1 0 1 1 0 1	sequence $[b_{N-2} \ \dots \ b_1 \ b_0]$

0 1 0 0 1 1 0	sequence $[s_{N-2} \ \dots \ s_1 \ s_0]$ (sum)
1 1 1 1 0 0 1	sequence $[c_{N-1} \ \dots \ c_2 \ c_1]$ (carries)

Figure 5

initial branch length of V	

1 0 0	1
0 1 1 0	2
0 1 1 1 0	3
1 0 0 1 1 0	4
1 0 0 0 1 1 0	5
1 0 1 0 0 1 1 0	6
1 0 0 1 0 0 1 1 0	7

} 602

Figure 6

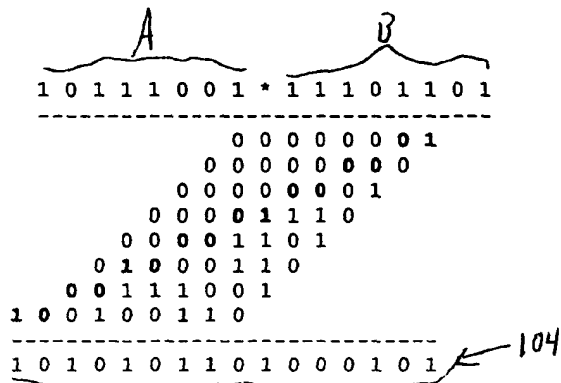


Figure 7

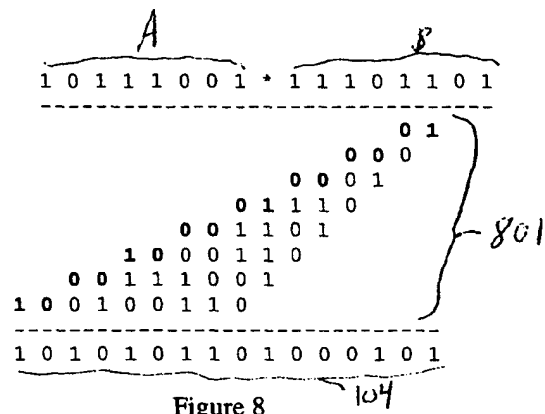


Figure 8

a_k	b_k	line #k
0	0	[0 0 ... 0]
0	1	[$a_{k-1} \dots a_1 a_0$]
1	0	[$b_{k-1} \dots b_1 b_0$]
1	1	[$s_{k-1} \dots s_1 s_0$]

Figure 9

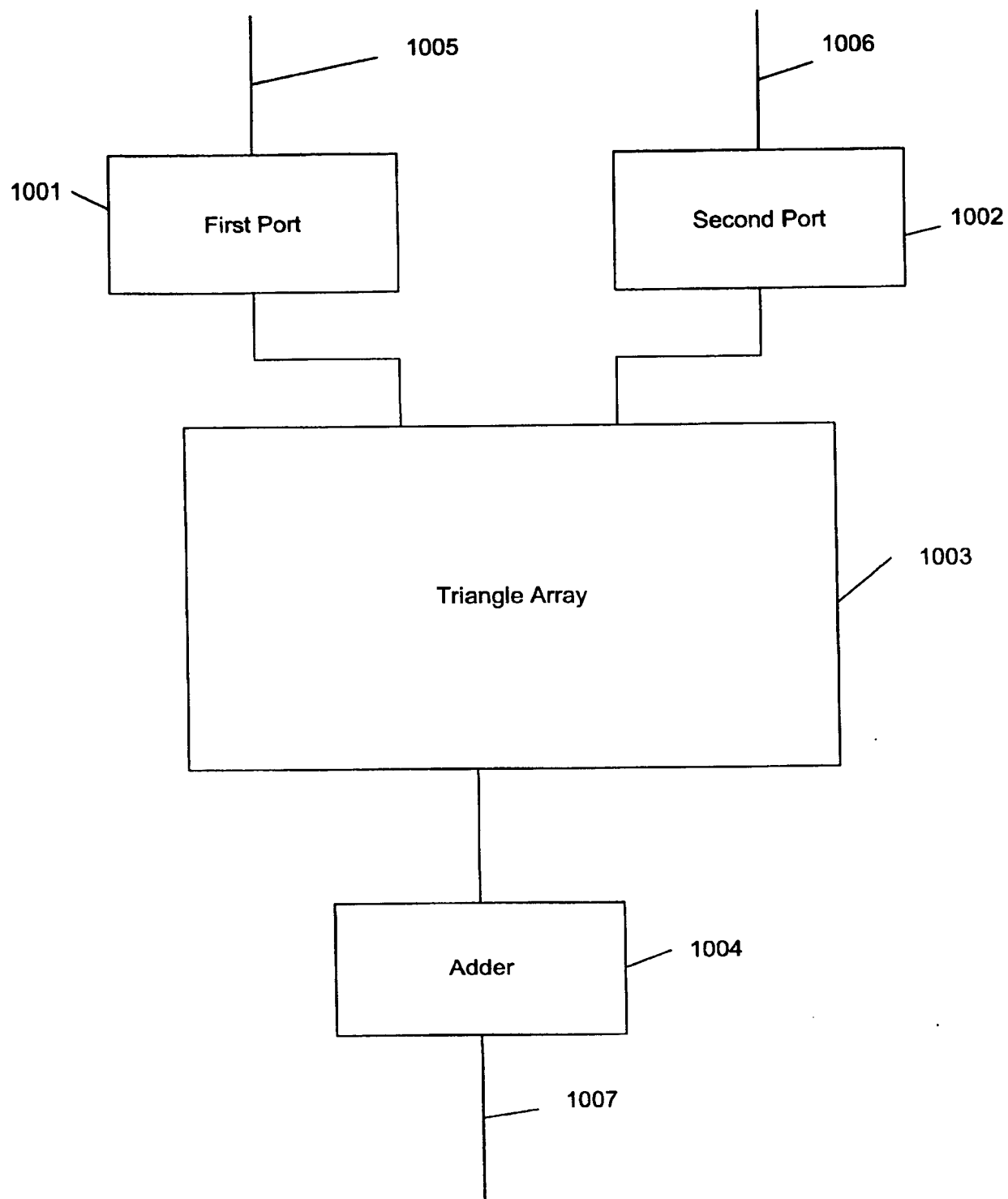


Figure 10